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Kotlow

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(54) **TEST DATA PROCESSING SYSTEM**

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(56) **References Cited**

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(57) **ABSTRACT**

A processing system and method is used to process acoustic and non-acoustic test data acquired from a number of data collectors. The post-processing system and method is implemented as software and hardware capable of running on a PC. The processing system interfaces with a data acquisition (DAQ) system that acquires calibration signals and test data from the data collectors at a test facility. The processing system uses the calibration signals to determine calibration factors representing the relationship between the test data and the appropriate engineering units. The processing system processes the acoustic and non-acoustic test data, applies the appropriate calibrations factors, and plots the acoustic and non-acoustic test data as a function of time to generate run-time plots. Data values are stored and plotted against calculated baseline curves to generate envelope or baseline plots of the collected data. Data values are also transferred to a spreadsheet or document ready charts for use with reports and other applications.

20 Claims, 21 Drawing Sheets